

STEREO MOC Status Report
Time Period: 2014:251 - 2014:257

STEREO Ahead (STA) Status:

1. The following Ground System anomalies/events occurred during this reporting period:

- On day 257, during the DSS-63 support, turbo decoder lock was lost intermittently beginning at 0633z through 0634z. This anomaly resulted in the loss of 57 frames of SSR data. See DR #N109725 more information.

2. The following spacecraft/instrument events occurred during this week. Note that the Ahead observatory is operating on the first side lobe of the HGA to prevent overheating of the HGA feed assembly.

- On day 251, during the DSS-25 support, communications on the first side lobe were tested at the 1 kbps and 3 kbps downlink rates with a DSN 34 meter station on the Ahead observatory. At the 3 kbps downlink rate using the XHEMT receiver, while carrier and symbol lock were achieved, the signal level was too low for telemetry lock even at higher elevations. At 1551z, the station switched to the maser receiver and telemetry lock was achieved with approximately 1.5 dB of downlink margin at high elevation. An SSR playback of the spacecraft data was conducted. At 1732z, the 1 kbps downlink rate was tested with approximately 7 dB downlink margin on the first side lobe and approximately 2 dB on the second side lobe. Commanding was successful at the 125 bps and 500 bps uplink rates.
- The average daily science data return for Ahead, while operating on the first side lobe on the HGA, was 0.095 Gbits during this week.

STEREO Behind (STB) Status:

1. The following Ground System anomalies/events occurred during this reporting period:

- None.

2. The following spacecraft/instrument events occurred during this week:

- On day 251, PLASTIC conducted real-time commanding to adjust the MCP voltages.
- On day 253, DHS parameters and MOps macros for side lobe operations at 3 kbps and 10 kbps downlink rates were loaded to C&DH RAM in preparations for the Behind solar conjunction testing to commence on day 270.
- The average daily SSR playback volume for Behind was 3.5 Gbits during this week.